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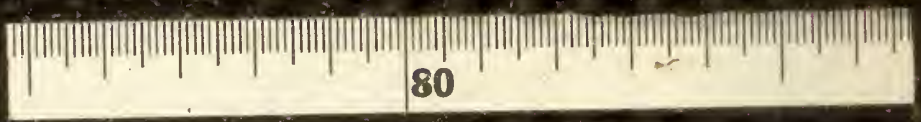
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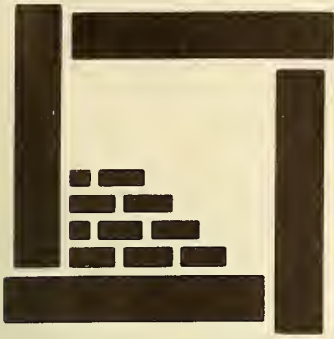
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PRELIMINARY REPORT  
INDUSTRY SERIES

**1982**  
**Census of**  
**Construction Industries**

CC82-I-18(P)  
Issued April 1984

ROOFING AND SHEET METAL WORK  
SPECIAL TRADE CONTRACTORS  
(Industry 1761)

During 1982, the establishments with paid employees classified in this industry accounted for \$10.0 billion in total business receipts. Of this amount, \$9.8 billion were receipts for construction work. These establishments paid out \$4.1 billion for materials, components, supplies, and fuels and \$.5 billion for construction work subcontracted to others. This industry had total average employment of 191,526 employees with total payroll of \$3.0 billion. Value added for 1982 was \$5.5 billion.

Establishments classified in this industry are primarily engaged in the installation of siding and roofing (including roof spraying, painting, or coating). This industry also includes contractors engaged in sheet metal work, except that done in connection with plumbing, heating, or air conditioning. For specific examples, refer to the 1972 Standard Industrial Classification (SIC) Manual, and its 1977 supplement, published by the Office of Management and Budget, Executive Office of the President.

For this census, a "construction establishment" was defined as a relatively permanent office or other place of business at which or from which the usual business activities related to construction were conducted. A separate census report was required from each establishment but not from each construction site. Instead, the data for work at each site were included in the report from the appropriate office or branch office. Foreign construction activities were not included in this census.

The 1982 estimates for establishments with paid employees in all of the construction industries are based on reports from a probability sample of approximately 172,000 establishments selected from a universe of about 498,000 construction establishments with payroll. The data obtained from the sample were weighted to represent all construction establishments with payroll. Complete descriptions of the sampling and estimating procedures will be included in the final reports.

Since the data in this report are based on a sample, they are subject to sampling variability and may be expected to differ from results which would have been obtained if a complete census had been taken using the same questionnaires and procedures. The relative standard error shown in the tables is a measure of sampling variability, i.e., the variation that might occur by chance because only a sample of the population was surveyed.

All data shown are based on current dollars for the years specified and have not been adjusted for inflation.



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**Table 1. General Statistics for Establishments With Payroll by States: 1982 and 1977**

(Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see page 4)

Location of establishment	1982							
	Number of establishments	Employees**		Payroll		Construction worker hours (thousands)	Total construction receipts	Net construction receipts†
		All	Construction workers	All employees	Construction workers			
A	B	C	D	E	F	G	H	
United States -----	21 215	191 526	158 980	3 039 900	2 327 076	261 675	9 841 143	9 323 164
Alabama -----	320	3 307	2 674	36 615	28 573	4 254	118 381	113 016
Alaska -----	49	535	436	11 347	9 540	656	40 285	38 424
Arizona -----	264	2 628	2 164	36 154	27 513	3 199	134 214	126 765
Arkansas -----	140	1 273	1 065	16 978	13 880	1 656	61 493	58 759
California -----	2 098	18 425	15 193	299 965	224 396	21 664	1 031 474	992 363
Colorado -----	372	3 491	2 964	52 136	39 576	4 388	179 312	170 411
Connecticut -----	330	2 657	2 206	45 689	34 477	3 371	152 484	142 011
Delaware -----	57	874	754	14 920	11 604	1 275	45 020	43 864
District of Columbia -----	26	389	345	8 550	7 662	624	19 734	19 277
Florida -----	1 540	14 962	12 403	195 327	150 169	19 894	653 299	624 872
Georgia -----	413	4 937	4 280	62 304	48 308	6 419	210 313	200 520
Hawaii -----	114	945	663	16 374	10 919	943	52 644	49 929
Idaho -----	85	555	485	7 422	6 044	679	29 089	27 512
Illinois -----	1 054	10 740	8 727	224 664	173 021	13 728	650 377	603 131
Indiana -----	478	4 441	3 696	81 239	62 973	5 706	229 155	220 995
Iowa -----	298	3 473	2 773	64 257	48 096	4 518	204 048	183 297
Kansas -----	209	1 685	1 348	26 726	18 455	2 120	81 088	77 454
Kentucky -----	267	1 841	1 470	28 555	20 366	2 160	84 111	80 451
Louisiana -----	327	3 420	3 010	49 931	40 220	4 863	146 900	140 371
Maine -----	87	740	631	10 157	7 682	1 104	34 144	33 307
Maryland -----	407	4 548	3 760	66 165	49 061	6 266	201 995	193 080
Massachusetts -----	547	4 532	3 740	66 933	52 099	5 810	227 113	213 859
Michigan -----	693	6 305	5 116	117 517	90 176	7 828	397 037	373 191
Minnesota -----	292	2 955	2 350	62 829	47 845	3 704	185 155	176 103
Mississippi -----	136	1 158	995	11 665	9 159	1 584	39 653	38 564
Missouri -----	436	4 050	3 242	66 798	49 648	4 705	211 525	196 892
Montana -----	66	403	331	7 506	5 633	490	25 002	24 106
Nebraska -----	163	1 524	1 227	28 974	22 384	1 978	105 349	92 287
Nevada -----	92	708	593	13 160	10 115	862	44 706	43 946
New Hampshire -----	77	633	487	8 928	6 304	804	31 547	30 139
New Jersey -----	817	6 016	5 113	99 185	77 002	7 828	306 622	293 660
New Mexico -----	106	1 030	871	12 816	10 300	1 322	44 621	43 203
New York -----	1 442	11 447	9 395	190 494	149 068	14 699	639 026	586 105
North Carolina -----	553	5 197	4 462	56 486	41 679	7 397	197 431	190 613
North Dakota -----	57	462	392	7 260	5 386	623	34 261	32 435
Ohio -----	1 039	8 171	6 700	147 802	116 412	10 753	455 365	426 690
Oklahoma -----	234	2 569	2 235	36 534	29 467	3 424	129 485	125 006
Oregon -----	294	1 637	1 309	24 611	19 257	1 894	81 273	78 223
Pennsylvania -----	1 303	10 448	8 507	180 261	135 728	(S)	550 568	532 311
Rhode Island -----	106	661	566	9 783	7 776	(S)	31 047	29 651
South Carolina -----	217	2 320	2 001	25 752	19 369	3 124	87 896	84 840
South Dakota -----	42	428	358	6 399	4 382	543	19 587	18 702
Tennessee -----	394	3 665	3 184	50 113	37 977	4 899	158 347	152 838
Texas -----	1 263	15 069	12 996	229 845	178 795	21 257	748 880	701 097
Utah -----	151	1 383	1 190	20 028	16 233	1 790	67 188	64 959
Vermont -----	51	479	397	8 198	6 109	748	22 892	21 830
Virginia -----	494	4 654	3 872	56 975	41 416	6 197	194 025	186 576
Washington -----	505	3 246	2 532	61 710	45 754	3 677	215 448	206 145
West Virginia -----	92	717	619	11 726	8 932	932	35 405	34 650
Wisconsin -----	561	3 482	2 894	58 869	46 041	4 533	178 655	170 744
Wyoming -----	45	295	246	5 258	4 083	367	16 463	13 976



1982—Con.						1977			Relative standard error of estimate (percent) for column—			Location of establishment
Value added††	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Rental payments for machinery, equipment, and structures	Capital expenditures, other than land	End-of-year gross value of depreciable assets	All employees**	Total construction receipts	Value added††				
I	J	K	L	M	N	O	P	Q	B	H	M	
5 465 642	4 051 748	517 978	109 545	157 061	1 390 926	171 931	6 200 390	3 420 412	(W)	(W)	1	U.S.
63 532	49 869	5 365	878	1 619	16 949	2 895	80 643	43 505	7	5	21	Ala.
22 510	16 722	1 860	238	704	5 679	242	17 870	9 827	9	8	8	Alaska
67 785	61 284	7 449	1 973	3 247	19 345	1 877	67 427	34 544	6	5	5	Ariz.
33 805	26 106	2 734	484	773	10 002	1 354	37 509	21 517	11	11	9	Ark.
580 952	437 989	39 111	14 382	13 617	141 003	15 794	824 634	421 756	2	1	3	Calif.
94 666	82 334	8 901	2 338	3 358	21 438	2 465	90 452	45 635	6	5	8	Colo.
83 832	60 087	10 472	1 646	2 591	19 333	2 920	94 649	51 809	5	4	11	Conn.
26 395	17 556	1 156	345	1 249	6 487	787	25 478	15 787	8	6	13	Del.
14 200	5 091	457	361	22	2 733	154	4 103	3 088	12	7	(W)	D.C.
348 822	288 966	28 427	6 595	10 796	97 106	9 018	273 759	146 795	2	2	4	Fla.
105 089	97 247	9 793	2 214	3 949	28 854	4 028	100 483	57 755	5	4	5	Ga.
29 940	21 069	2 714	1 311	1 036	7 424	869	16 834	9 834	9	7	6	Hawaii
16 408	12 009	1 577	557	353	4 569	574	19 556	9 634	15	10	12	Idaho
382 308	230 378	47 246	6 846	9 586	83 548	10 318	437 721	242 416	3	2	4	Ill.
139 044	89 085	8 159	1 830	3 006	33 546	4 533	158 669	89 913	4	3	6	Ind.
113 778	73 662	20 751	3 029	2 179	27 654	2 657	90 717	53 304	5	4	10	Iowa
45 911	34 553	3 633	1 339	1 633	14 138	1 967	67 206	36 146	8	7	3	Kans.
50 420	31 691	3 660	1 031	1 853	16 639	1 904	54 605	31 332	7	6	7	Ky.
91 464	(D)	6 529	1 462	2 367	22 835	2 634	71 529	44 656	5	3	6	La.
18 468	(D)	837	279	611	6 179	822	26 563	14 382	10	10	15	Maine
113 675	82 829	8 915	2 610	3 840	30 670	4 022	122 468	66 110	5	3	8	Md.
126 264	92 395	13 253	2 876	3 861	27 190	3 356	111 759	66 332	5	5	8	Mass.
237 323	147 598	23 846	3 624	6 258	56 367	7 087	300 655	164 638	3	2	6	Mich.
107 845	69 439	9 052	1 777	2 668	31 482	2 835	125 029	68 573	3	3	4	Minn.
21 150	17 993	1 088	128	389	5 201	1 144	34 422	19 248	12	11	19	Miss.
114 502	84 609	14 633	2 232	3 455	35 343	4 218	160 470	85 149	5	4	5	Mo.
13 936	10 281	896	306	390	3 935	319	13 415	7 376	12	14	15	Mont.
52 511	41 591	13 062	1 100	1 339	11 310	1 290	42 952	24 548	7	5	4	Nebr.
24 830	19 275	759	847	765	6 186	751	34 748	15 801	8	5	23	Nev.
15 546	14 968	1 408	594	318	4 556	601	16 520	9 551	12	11	11	N.H.
178 667	122 163	12 962	2 841	3 855	37 062	5 319	209 687	114 832	4	3	6	N.J.
24 406	20 583	1 418	732	871	7 391	1 156	32 736	17 220	9	7	17	N. Mex.
346 709	248 630	52 920	6 820	9 913	73 928	9 726	330 488	192 429	2	2	5	N.Y.
98 394	94 432	6 817	2 073	2 938	32 332	4 429	122 776	65 873	4	4	5	N.C.
16 156	16 705	1 826	258	559	5 589	488	22 070	13 160	14	10	5	N. Dak.
251 945	182 892	28 675	5 207	8 324	64 067	8 596	333 355	190 980	2	2	5	Ohio
69 604	58 129	4 479	1 335	2 029	18 040	1 646	60 357	33 520	6	6	10	Okla.
44 659	34 238	3 049	1 118	1 701	13 929	2 218	83 286	48 977	9	8	16	Oreg.
302 595	237 285	18 257	5 519	7 599	81 539	11 566	393 513	235 057	2	2	3	Pa.
16 869	12 859	1 396	156	159	3 715	746	22 614	13 531	11	10	22	R.I.
45 600	42 429	3 055	562	1 401	12 537	1 708	49 261	24 142	6	5	7	S.C.
11 466	9 084	885	135	106	2 931	405	13 479	7 290	18	14	10	S. Dak.
88 296	70 099	5 509	1 581	3 223	24 601	3 493	99 773	52 821	5	4	12	Tenn.
396 227	311 334	47 782	7 397	13 584	107 072	11 555	352 281	197 905	2	2	3	Tex.
34 127	33 712	2 229	973	918	8 826	1 655	58 254	31 878	8	8	13	Utah
12 274	(D)	1 062	180	716	4 246	384	11 275	6 794	12	11	7	Vt.
101 547	89 165	7 448	2 315	4 151	30 904	4 134	116 401	64 272	5	4	8	Va.
135 506	75 843	9 302	2 725	3 907	30 391	3 355	138 445	74 518	5	3	5	Wash.
22 318	12 867	755	173	230	4 754	1 084	31 192	18 533	9	6	9	W. Va.
104 082	73 114	7 911	1 933	2 921	27 203	4 451	166 516	91 058	4	4	7	Wis.
7 266	6 939	2 487	263	109	2 151	381	14 966	7 674	9	10	7	Wyo.

**Table 2. Construction Receipts for Establishments With Payroll by Type of Construction: 1982 and 1977**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see page 4]

Item	1982	1977	Relative standard error of estimate (percent)	
			1982	1977
<b>Total construction receipts</b> .....	<b>9 841 143</b>	<b>6 200 390</b>	<b>1</b>	<b>1</b>
Building construction .....	8 586 613	5 568 113	1	1
Single-family houses .....	1 909 231	1 773 735	1	1
Apartment buildings with two or more apartments .....	413 861	328 853	2	2
Other residential buildings .....	195 672	128 598	2	2
Industrial buildings and warehouses .....	2 538 217	1 536 813	1	1
Office and bank buildings .....	1 201 675	398 738	1	1
Stores, restaurants, public garages, and automobile service stations .....	782 569	356 136	2	1
Religious buildings .....	193 288	133 057	2	2
Educational buildings .....	742 541	457 746	1	1
Hospitals and institutional buildings .....	454 474	312 024	1	2
Other nonresidential buildings .....	155 079	142 413	4	3
Nonbuilding construction .....	182 189	122 834	2	4
Construction work, n.s.k. ....	1 072 340	509 607	2	3

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The following abbreviations and symbols are used in the tables in this publication:

- \* Sampling error exceeds 40 percent.
- \*\* All employees (average) is the sum of construction workers during pay period including 12th of March, May, August, and November divided by 4, added to all others, March 12th.
- Represents zero.
- † Represents total construction receipts less payments for construction work subcontracted to others.
- †† Represents all business receipts less payments for construction work subcontracted to others, and payments for materials, components, supplies, and fuels. In SIC's 1531 and 6552, land receipts are also subtracted from "all business receipts."
- (D) Withheld to avoid disclosing data for individual companies; data are included in higher level totals.
- (NA) Not available.
- (S) Withheld because estimate did not meet publication standards on the basis of either the response rate, associated standard error, or a consistency review.
- (W) Greater than zero but less than 1 percent.
- (X) Not applicable.
- n.s.k. Not specified by kind.





